

Pacific Northwest National Laboratory Environmental Management Performance Report

December 2000

**PREPARED FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE
OFFICE OF ENVIRONMENTAL MANAGEMENT**

**Pacific Northwest National Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute**

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Introduction

This document provides the Department of Energy Richland Operations Office (DOE-RL) with a report of the Pacific Northwest National Laboratory (PNNL) performance by Battelle Memorial Institute and its subcontractors.

In Section A, the Executive Summary, text and graphics report the safety metrics status for all PNNL activities. Senior management's overall performance assessment of all Environmental Management activities conducted at PNNL is presented in a stoplight chart.

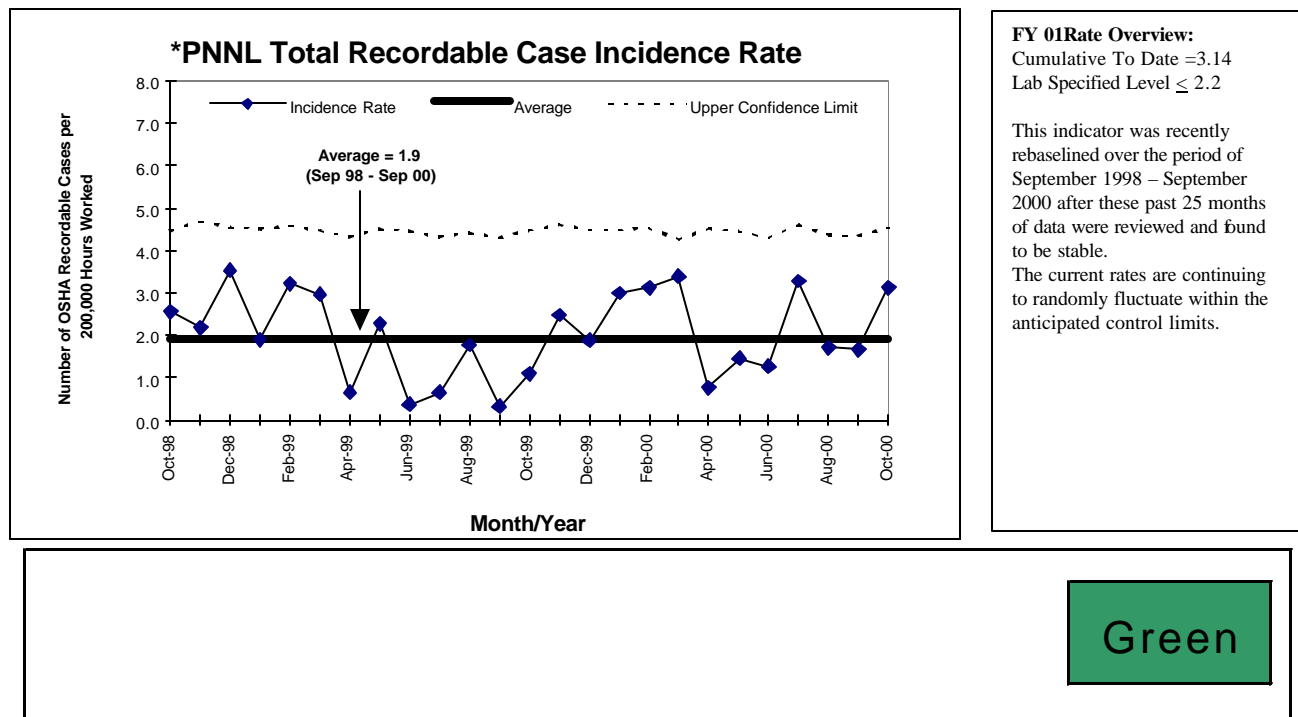
Section B, Project Performance Summary, provides a brief summary of the month's performance for the PNNL lead activity, PNNL Waste Management (PBS RL-ST01). More detailed information can be found within PNNL-7911-109a, PNNL's Project Status Report for October 2000. Summary analyses pertaining to PNNL's support to other Project Baseline Summaries (PBSs) are addressed in the contractor's report having lead responsibility for that scope.

Unless otherwise noted, information in this report is current as of October 29, 2000.

This section provides an executive-level summary of performance information and is intended to bring to management's attention that information considered to be most noteworthy. The section begins with overview of safety, a summary of FY 2001 performance, a summary of Fiscal Year (FY) 2001 Voluntary Protection Program (VPP) activities, followed by a stoplight chart on overall performance.

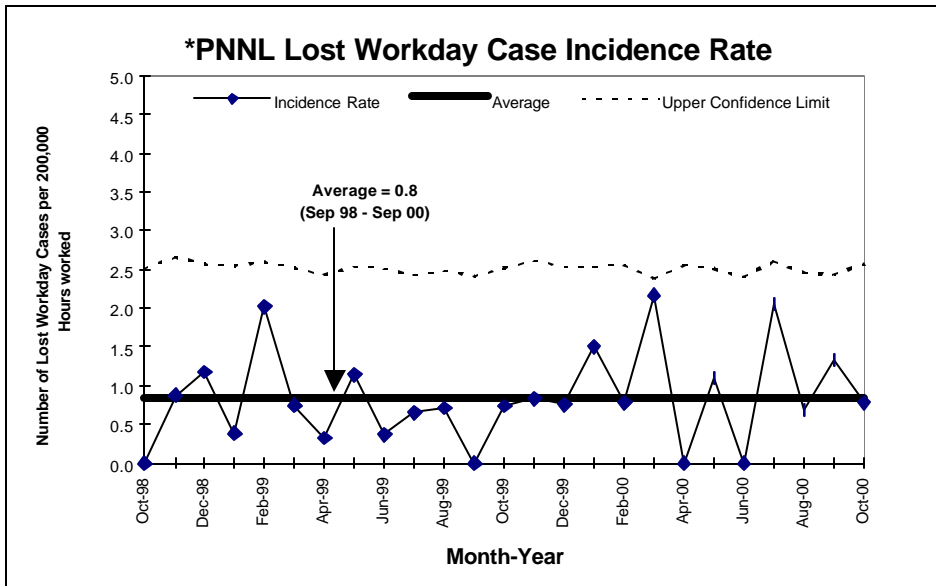
Safety Overview

The focus of this section is on documenting trends in work-related injury and illness rates. These are the same performance indicators as appear in the FY2001 Battelle Performance Evaluation and Fee Agreement, which is part of the Pacific Northwest National Laboratory operations Contract. The rates for Recordable and Lost Workday cases are presented graphically in this section and are monitored for statistically significant changes. Current efforts to improve performance are being made through the continued implementation of the Integrated Safety Management System (ISMS), and the development and implementation of the Voluntary Protection Program (VPP).



*Includes all Pacific Northwest National Laboratory Operations.

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Section A - Executive Summary



FY 01Rate Overview:
 Cumulative To Date = .78
 Lab Specified Level ≤ 1.1

This indicator was recently rebaselined over the period of September 1998 – September 2000 after these past 25 months of data were reviewed and found to be stable. The current rates are continuing to randomly fluctuate within the anticipated control limits

Green

*Includes all Pacific Northwest National Laboratory Operations. *Includes all Pacific National Laboratory Operations.

Cost/Schedule Performance Stoplight

The following rating reflects overall cost and schedule performance for activities conducted by PNNL.
 (Narrative not required when rating is green.)

Green

Green: Satisfactory
 Yellow: Significant improvement required
 Red: Unsatisfactory

This section provides cost and schedule performance, any significant issues, upcoming baseline change requests for the period covered, and Fiscal Year (FY) 2001 accomplishments. In FY 2001, Battelle Memorial Institute has lead responsibility over PBS RL-ST01, PNNL Waste Management WBS 1.7.1.

Mission

WBS 1.7.1 provides PNNL with waste management services and compliant operations in support of science and technology development for the multiprogram needs of the U.S. Department of Energy (DOE) Complex. These services include:

- essential surveillance and maintenance of DOE laboratory facilities assigned to PNNL for safe containment of radioactive and hazardous materials
- infrastructure required to manage wastes and effluents currently generated at the PNNL
- operational compliance services to meet regulatory requirements and operating permits including environment, safety, and health regulations
- management of legacy wastes and contamination remaining from past PNNL research operations.

Performance Data and Analysis

As of October 29, 2000 the cumulative costs are \$0.8 million with a positive cost variance of \$0.03M and a cumulative schedule variance of negative \$0.2M. The cost variance is within the 10 % reporting threshold. A brief explanation for the variances will be described following the tables and chart.

Cost Performance (\$M):			
	BCWP	ACWP	Variance
PNNL Waste Management	\$0.8	\$0.8	\$0.0
Schedule Performance (\$M):			
	BCWP	BCWS	Variance
PNNL Waste Management	\$0.8	\$1.0	(\$0.2)

FY 2001 Cost/Schedule Performance - All Fund Types **Cumulative to Date Status - (\$000)**

WBS	PBS	BCWS	BCWP	ACWP	CV	%	SV	%
1.7.1	RL-ST01	<u>\$1,034</u>	<u>\$812</u>	<u>\$785*</u>	<u>\$27</u>	<u>3</u>	<u>\$(222)</u>	<u>-21</u>
Total		\$1,034	\$812	\$785*	\$27	3	\$(222)	-21

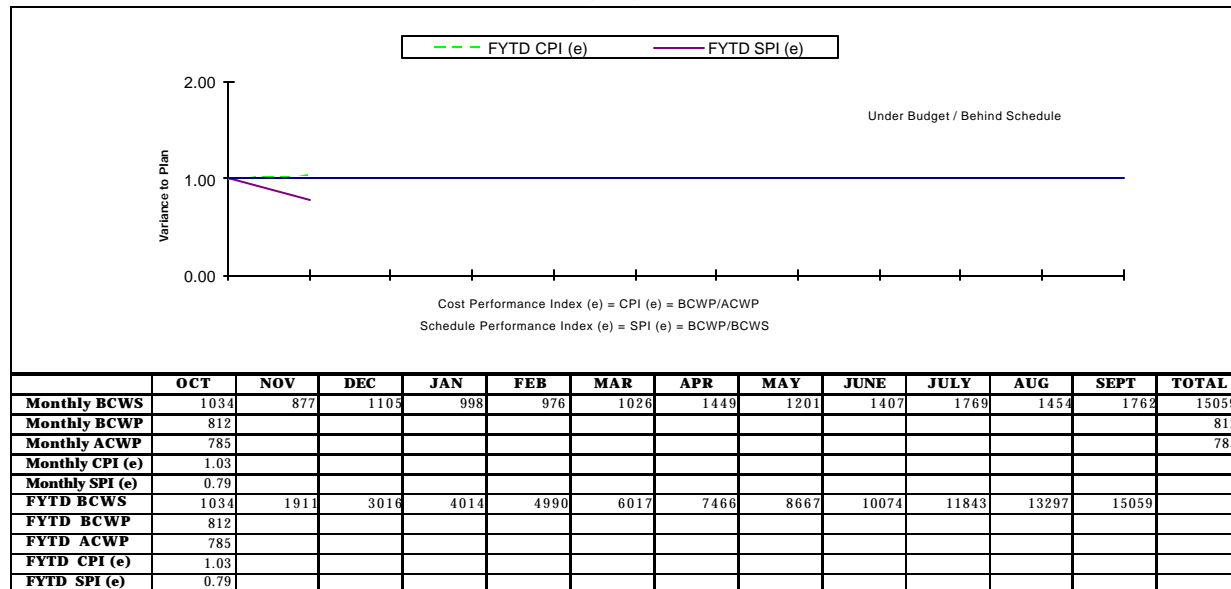
* Numbers reflect PNNL system; per DISCAS actuals, including \$ expended by Fluor for S&M of 242B/BL, are only

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Section B - Project Performance Summary

\$753.6K

Cost / Schedule Performance Indices

FY 2001 Cum to Date Status
(\$000s)



The positive cost variance of \$0.03M results from delayed billings. This variance will reduce once outstanding costs have been processed. In addition, FY 2001 rates have been finalized and are higher than anticipated during the planning process. The impacts of the cost increase are being assessed.

The schedule variance for October, of negative \$0.2M, is above the 10% threshold. The primary activities making up the year-end negative schedule variance are as follows:

- Delays have been encountered within the Program awaiting resolution of FY 2001 funding allocations.
- Delays have been encountered with procurement of High Dose Solid Waste shielded drums. As a result of this delay the drum shipping dates for the 73 cans of transuranic (TRU)/low-level waste (LLW) is expected to occur within the first quarter of FY 2001. Concerted efforts are being made to streamline the fabrication process and set priorities for which type of drums need to be available first.
- The integrity assessment of the radioactive liquid waste tank (RLWT)-piping is currently on hold with no defined completion date. The integrity assessment and associated waste processing continues to be delayed because the 204-AR Facility (receiver facility) is not ready, and Pacific Northwest does not want to add any liquids to the tank to make it a radiologically controlled tank until the receiver facility is ready.

Four FY 2000 change requests were approved either deferring or adding scope to FY 2001 baseline

using FY 2000 carryover funds. Completion of this scope may be impacted pending resolution of final FY 2001 funding allocations.

- PWM2000-009, “High Dose Waste and 604 Glovebox Schedule Revisions, RL Milestone Delays,” deferred \$139K of legacy waste disposal scope into FY 2000. (Approved 8/28/00)
- PWM2000-013, “Adjust Project Baseline to Reflect Basis of Estimate Revision and Deferral of Activities into FY 2001,” deferred \$165.3K of scope associated with liquid waste disposal using radioactive liquid waste system (RLWS). (Approved 10/2/00)
- PWM2000-014, “Scope Deferral from FY 2000 to FY 2001,” deferred \$34.2K of scope to conduct air emissions inventory and air compliance inspections for six Research and Development (R&D) laboratories into FY 2001. (Approved 10/2/00)
- PWM2000-016, “HVAC Controller Replacement/Upgrade,” added \$335K of scope in FY 2001. (Approved 10/2/00)